Y3 2017-18 Mathematics Curriculum	Number and place value	Addition and Subtraction	Multiplication and division	Fractions	Measuring	Geometry *(properties of shape and position/direction)*	Statistics *(data handling)*

The Non-negotiables
 	
• Compare & order numbers up to 1000.
• Read & write all numbers to 1000 in digits & words.
• Find 10 or 100 more/less than a given number.
• Count from 0 in multiples of 4, 8, 50 & 100.
• Recall & use multiplication & division facts for 3, 4, 8 tables.
• Recognise PV of any 3-digit number.
• Add & subtract:
  ○ 3-digit nos & ones
  ○ 3-digit nos & tens
  ○ 3-digit nos & hundreds
• Add & subtract:
  ○ Numbers with up to 3-digits using efficient written method (column).
• Use inverse to check.
• Multiply:
  ○ 2-digit by 1-digit
• Count up/down in tenths.
• Compare & order fractions with same denominator.
• +/- fractions with same denominator with whole.
• Know pairs of fractions that total 1.
• Tell time using 12 and 24 hour clocks; and using roman numerals.
• Tell time to nearest minute.
• Know number of days in each month.
	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
	
	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
	
	Compare and order numbers up to 1000
	
	Identify, represent and estimate numbers using different representations
	
	Read and write numbers up to 1000 in numerals and in words
	
	Solve number problems and practical problems involving these ideas
		Add and subtract numbers mentally, including:
		• a three-digit number and ones
		• a three-digit number and tens
		• a three-digit number and hundreds
		• add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
		• estimate the answer to a calculation and use inverse operations to check answers
		
		Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
			Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
			
			Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
			
			Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
				Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
				
				Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
				
				Recognise and show, using diagrams, equivalent fractions with small denominators
				
				Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]
				
				Compare and order unit fractions, and fractions with the same denominators
				
				Solve problems that involve all of the above
					Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
					
					Measure the perimeter of simple 2D shapes
					
					Add and subtract amounts of money to give change, using both £ and p in practical contexts
					
					Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
					
					Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
					
					Know the number of seconds in a minute and the number of days in each month, year and leap year
					
					Compare durations of events [for example to calculate the time taken by particular events or tasks]
						Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them
						
						Recognise angles as a property of shape or a description of a turn
						
						Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
						
						Identify horizontal and vertical lines and pairs of perpendicular and parallel lines
							Interpret and present data using bar charts, pictograms and tables
							
							Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables